

# National Security Economic Theory (NASCENT)

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DARPA/I2O

Proposers Day

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**10-Year Vision:** Theoretically rigorous and evidence-backed economic statecraft is the norm across the U.S. Government and the private sector.



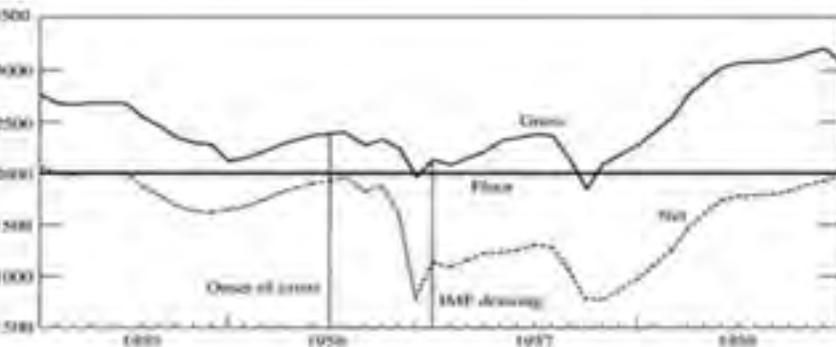
# Is Economic Statecraft the "New" Normal?

*1956: U.S. threat to devalue pound sterling **ends** the Suez Crisis.*



Port Said,  
1956

Imperial War Museum, Fleet Air Arm Official Photographer



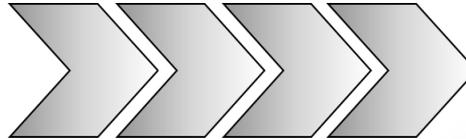
U.K. Central Statistical Office, Monthly Digest of Statistics

*U.K. Gold and Dollar Reserves*

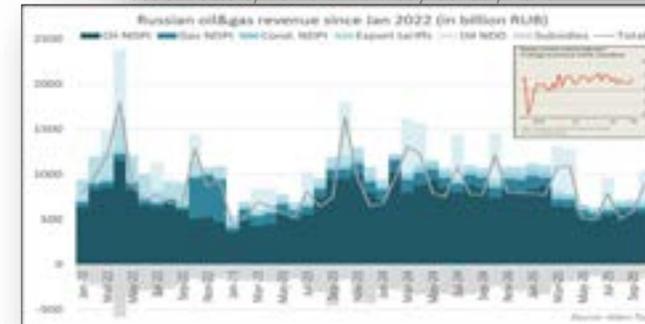


Reuters, 2022

**70 Years**



Russia Matters, Harvard Kennedy School, 2025



Janis Kluge, X, 2025

***2026: U.S. oil and financial sanctions **don't** meaningfully affect Russo-Ukrainian War.***



# What happened?

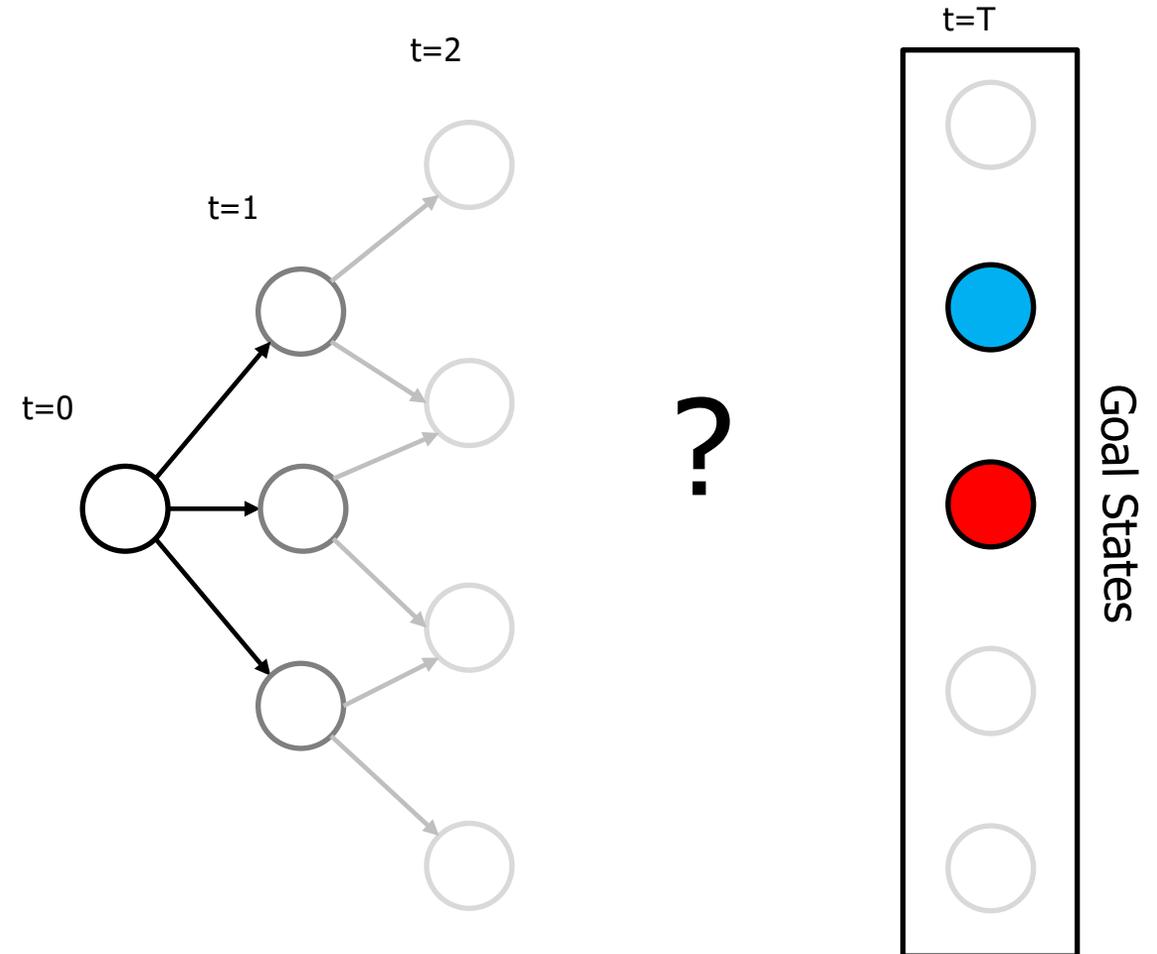
## Maybe...

- Global economy is exceedingly complex at any level of analysis – far more so than in 1956 – and failure of “traditional” economic statecraft instruments was inevitable.

## And maybe...

- We don't have accurate and precise tools of economic statecraft.
- We don't know when the tools will work and when they won't.
- We don't know what the (unintended?) consequences are.

**Both possibilities can be true simultaneously.**





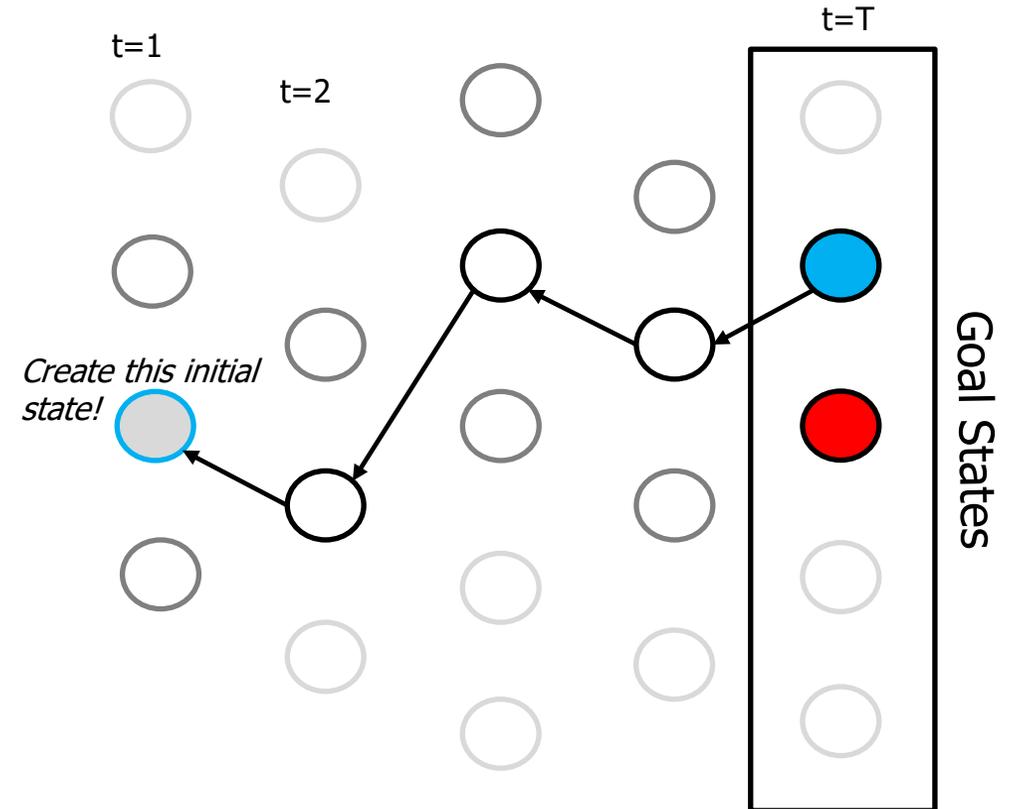
# NASCENT will be the Foundation for Trusted Economic Statecraft

NASCENT aims to:

- Create rigorous and quantitative geoeconomic theory
- Test theory in experimental wargames, executive tabletop exercises, and operational applications
- Create robust transition pathways for the perpetuation of rigorous geoeconomic research

NASCENT **does not aim to:**

- Attempt to model the whole world
- Create policy (i.e., economic statecraft)



*Theory enables trust in actions and outcomes by working backward from goal states.*



# Geoeconomic Problem Decomposition: What?

## The state and society

Agent goals	Education	<ul style="list-style-type: none"> <li>- R&amp;D funding</li> <li>- Public-private partnerships</li> <li>- Subsidies</li> </ul>	<ul style="list-style-type: none"> <li>- Selective funding</li> <li>- Educational standards</li> <li>- Accreditation</li> </ul>	<ul style="list-style-type: none"> <li>- R&amp;D funding</li> <li>- IR/poli-sci research</li> </ul>	<ul style="list-style-type: none"> <li>- Education policy</li> <li>- Accreditation</li> <li>- Industrial leadership</li> </ul>
	General public	<ul style="list-style-type: none"> <li>- Taxation</li> <li>- Subsidies</li> <li>- Consumer protection</li> </ul>	<ul style="list-style-type: none"> <li>- Poverty assistance</li> <li>- Criminal justice</li> <li>- Public health</li> </ul>	<ul style="list-style-type: none"> <li>- Civil liberties</li> <li>- Conscription</li> <li>- Compensation</li> </ul>	<ul style="list-style-type: none"> <li>- Elections</li> <li>- Public accountability</li> <li>- Economic opportunity</li> </ul>
	Political orgs	<ul style="list-style-type: none"> <li>- Budgetary prioritization</li> <li>- Employment policy</li> <li>- Fiscal policy</li> </ul>	<ul style="list-style-type: none"> <li>- Labor laws</li> <li>- Criminal justice</li> <li>- Educational investment</li> <li>- Healthcare investment</li> </ul>	<ul style="list-style-type: none"> <li>- Alliances</li> <li>- Foreign policy</li> <li>- Diplomatic presence</li> <li>- Crime legislation</li> </ul>	<ul style="list-style-type: none"> <li>- Party systems</li> <li>- Voter representation</li> <li>- National identity formation and management</li> </ul>
	Economic agents	<ul style="list-style-type: none"> <li>- Monetary/fiscal policy</li> <li>- Subsidies</li> <li>- Property law</li> <li>- Infrastructure investment</li> </ul>	<ul style="list-style-type: none"> <li>- Welfare programs</li> <li>- Labor market</li> <li>- Housing policy</li> <li>- Financial services</li> </ul>	<ul style="list-style-type: none"> <li>- Sanctions/tariffs</li> <li>- Regulations</li> <li>- Pub/Private partnerships</li> <li>- Mil. Spending</li> <li>- Capital controls</li> </ul>	<ul style="list-style-type: none"> <li>- Electoral security</li> <li>- Accountable inst.</li> <li>- Regulatory transparency</li> </ul>
		Economic growth	Social stability	Nat. Sec.	Political stability
		State goals			

## NASCENT focus

Economic agent goals	Risk mitigation	<ul style="list-style-type: none"> <li>- Security alliances</li> <li>- Trade agreements</li> <li>- Securing commercial hubs and routes</li> </ul>	<ul style="list-style-type: none"> <li>- Stockpiling</li> <li>- Public-private partnerships</li> <li>- Insurance</li> </ul>
	Market share	<ul style="list-style-type: none"> <li>- Import/export restrictions</li> <li>- Strategic acquisitions</li> <li>- Quotas</li> <li>- Subsidies</li> </ul>	<ul style="list-style-type: none"> <li>- Foreign investment controls</li> <li>- R&amp;D investment</li> </ul>
	Profit	<ul style="list-style-type: none"> <li>- Trade agreements</li> <li>- Strategic acquisitions</li> </ul>	<ul style="list-style-type: none"> <li>- Procurement and sustainment</li> <li>- Operational testing</li> <li>- Subsidies</li> </ul>
		Outward	Inward
	National security goals		

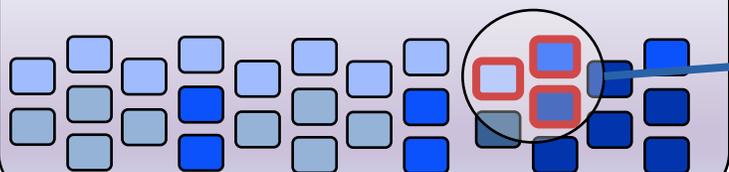
**Make a better decomposition!**



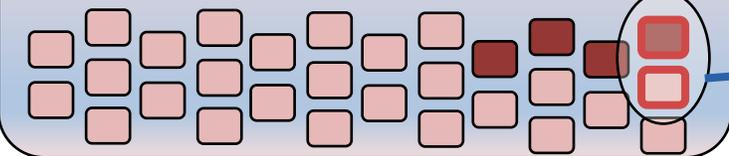
# Geoeconomic Problem Decomposition: Why?

## Semantics

### Economic Agent Semantics

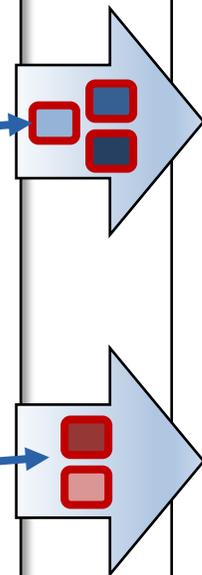


### National Security Objective Semantics

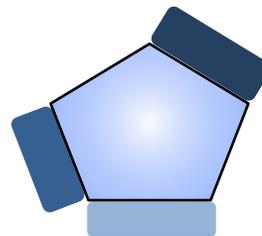


Semantics would help enable

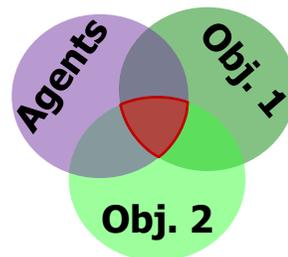
- Scalable modeling of emergence
- Interoperability / genericity



## Formal Specification



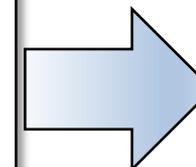
Verify agent type combinations



Feasibility region where objectives met and actions allowable

Verify if any action or set of actions can satisfy objectives

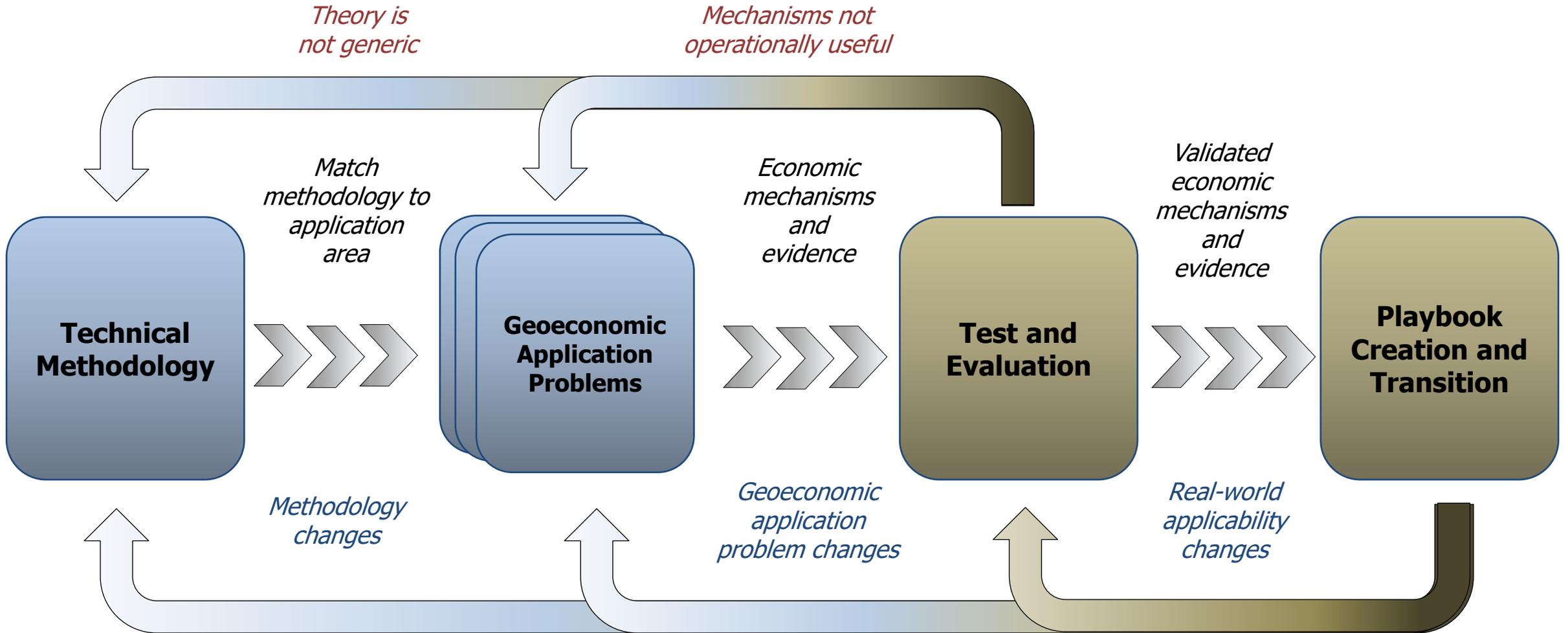
- Boolean verifiability
- Stochastic Dominance



Downstream processing



# Geoeconomic Theory Development





# Research Methodology

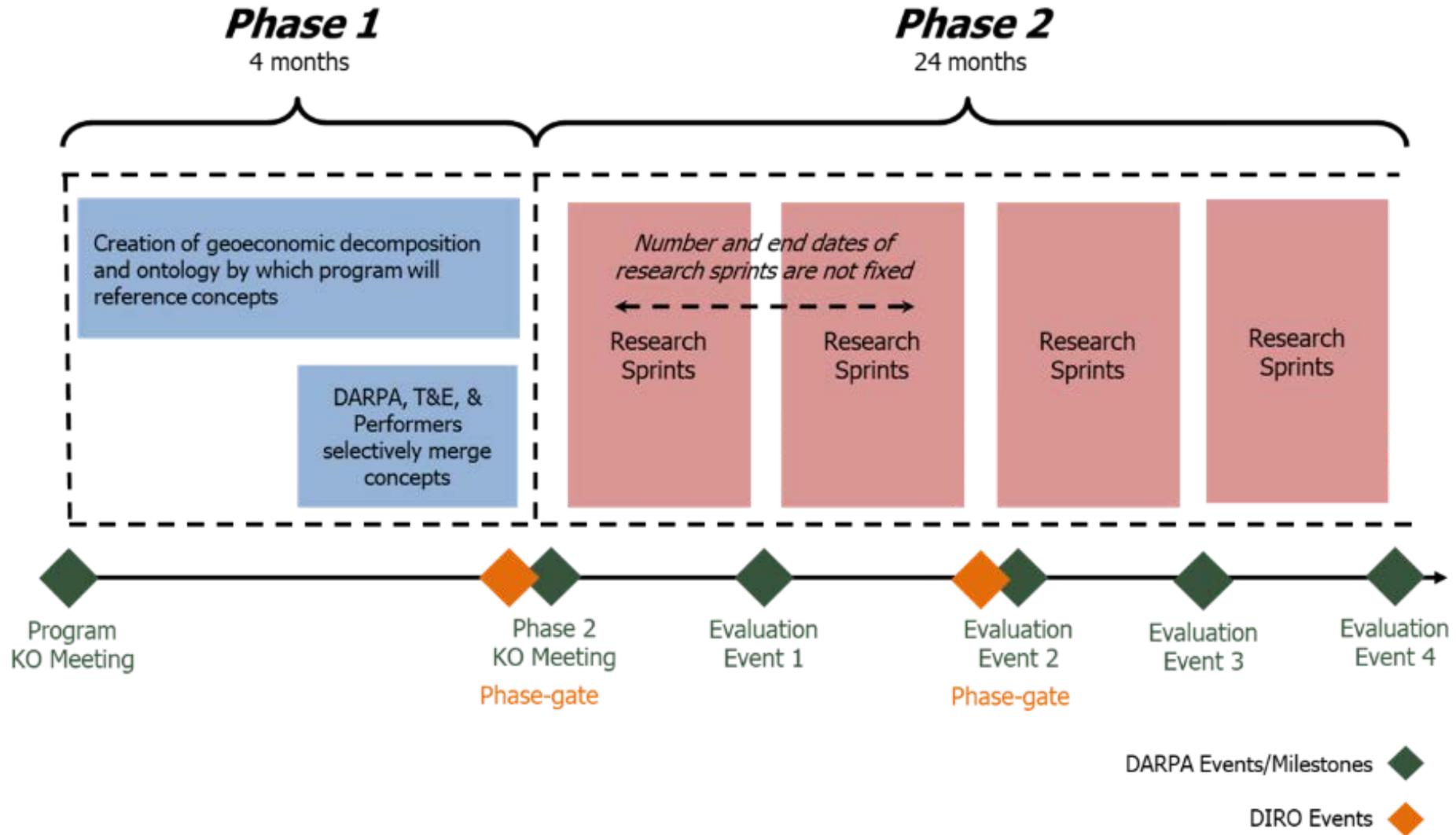
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- DARPA **strongly encourages** diversity in proposed research methodology
- “Pencil-and-paper”...
  - E.g., rapid advances in auction theory in the mid 2010s stemming from innovative application of tropical geometry / algebra (see, e.g., Crowell, R. A., & Tran, N. M. (2016). Tropical geometry and mechanism design. *arXiv preprint arXiv:1606.04880*)
- ...to transformers + formal methods...
  - E.g., see expMath ([expMath: Exponentiating Mathematics](#)) and imagine the applications to economic theory
- ...and anything else you can think of – the above examples are *not* prescriptive.
- Proposed methodology **should** enable development of theory that
  - Is reducible to practice
  - Has assumptions that are precise, realistic, and minimal
  - Is done rapidly
- And **should not**
  - Rapidly generate “slop” work (or, for that matter, slowly generate “slop” either)

**More information in the program solicitation.**



# Schedule





[www.darpa.mil](http://www.darpa.mil)